

Kirill Kulikov

Laser Interaction with Biological Material

Mathematical Modeling

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Kirill Kulikov, Tatiana Koshlan



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Laser Interaction with Biological Material Kirill Kulikov, 2013-09-16 This book covers the principles of laser interaction with biological cells and tissues of varying degrees of organization The problems of biomedical diagnostics are considered Scattering of laser irradiation of blood cells is modeled for biological structures dermis epidermis vascular plexus An analytic theory is provided which is based on solving the wave equation for the electromagnetic field It allows the accurate analysis of interference effects arising from the partial superposition of scattered waves Treated topics of mathematical modeling are optical characterization of biological tissue with large scale and small scale inhomogeneities in the layers heating blood vessel under laser irradiation incident on the outer surface of the skin and thermo chemical denaturation of biological structures at the example of human skin

Laser Interaction with Heterogeneous Biological Tissue Kirill Kulikov, Tatiana Koshlan, 2018-06-27 This book introduces readers to the principles of laser interaction with biological cells and tissues with varying degrees of organization In addition to considering the problems of biomedical cell diagnostics and modeling the scattering of laser irradiation of blood cells for biological structures dermis epidermis vascular plexus it presents an analytic theory based on solving the wave equation for the electromagnetic field It discusses a range of mathematical modeling topics including optical characterization of biological tissue with large scale and small scale inhomogeneities in the layers heating blood vessels using laser irradiation on the outer surface of the skin and thermo chemical denaturation of biological structures based on the example of human skin In this second edition a new electrodynamic model of the interaction of laser radiation with blood cells is presented for the structure of cells and the in vitro prediction of optical properties The approach developed makes it possible to determine changes in cell size as well as modifications in their internal structures such as transformation and polymorphism nucleus scattering which is of interest for cytological studies The new model is subsequently used to calculate the size distribution function of irregular shape particles with a variety of forms and structures which allows a cytological analysis of the observed deviations from normal cells

Laser Interaction with Heterogeneous Biological Tissue Kirill Kulikov, Tatiana Koshlan, 2018 This guide to laser interactions with a variety of biological cells and tissues delivers a practical analytical tool for assessing interference effects It includes mathematical models and solutions to recognized problems in biomedical diagnostics

Metal Oxides for Next-generation Optoelectronic, Photonic, and Photovoltaic Applications Vijay Kumar, Vishal Sharma, Hendrik C. Swart, Subrata Das, 2023-08-28 Metal Oxides for Next Generation Optoelectronic Photonic and Photovoltaic Applications focuses on the optoelectronic photonic and photovoltaic behaviors of metallic oxides and closely related phenomena from elementary principles to the latest findings Each chapter includes a comprehensive evaluation of the synthesis and characterization of the most relevant metal oxides nanostructures for each application In addition there is a focus on methods to tune the materials properties in order to improve devices performance This book is suitable for researchers and

practitioners in academia and industry working in the disciplines of materials science and engineering chemistry and physics Metal oxides are widely used in various optoelectronic devices photonics display devices smart windows sensors optical components energy saving and harvesting devices Each application requires materials with their own specific properties By controlling the particle size shape crystal structure one can tune various properties of metal oxides viz bandgap absorption properties conductivity which alter the material for the specific application Includes discussions of synthesis and characterization of metal oxides materials for applications in next generation optoelectronic photonic and photovoltaic devices Emphasizes material design strategies of metal oxide nanostructures Focuses on the optoelectronic photonic and photovoltaic behaviors of metallic oxides and closely related phenomena from elementary principles to the latest findings

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Peterson's Annual Guides to Graduate Study, 1982-12 **The Molecular Theory of Radiation Biology** K. H. Chadwick, H. P. Leenhouts, 2012-12-06 In late 1971 we were involved in a study of the interaction of radiation with matter and were trying to use measurements of radiation fluorescence in biological molecules to indicate how radiation affected living cells It soon became apparent that we were working in the dark the doses we used to get a significant signal were too large to be of interest for radiation biology and although the DNA molecule appeared to be the most likely target molecule we did not know which sort of events and which sort of lesions were the most important We decided to alter our approach to see if we could find any consistent mathematical order in the radiobiological dose relationships We found that cell survival curves could be very usefully described by a linear quadratic dose relationship and very soon came to the somewhat premature but as it turned out most effective conclusion that the induction of DNA double strand breaks should be linear quadratic In deciding that the DNA double strand break was the crucial and all important lesion we were able to associate the mathematical analysis with the biology of the cell and were able to relate known properties of the DNA molecule to known radiobiological effects On the other hand we were restricted and brought from an abstract two hit lesion which could have any property one wished down to earth to a defined molecular structure of nanometer dimensions and well known functions and properties

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